

### Mesuring Health literacy among French pupils with the HLS-Child-Q15

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## INTRODUCTION

"Health Literacy empowers, drives equity and must be an integral part of the skills, and competencies developed a lifetime, first and foremost over through the school curriculum." (WHO, 2017)

No tool measuring Health literacy by 8to11-year-old children validated in French.

# **OBJECTIVES**

This study aimed to:

Test



Translate, adapt

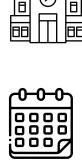
a short scale HLS-Child-Q15 (Bollweg 2020) developed to assess and al. generic, self-reported, health literacy among French-speaking 8-to11-year-old children.

HLS-Child-Q15 -

This measure of children's health literacy is subjective.

23.

## **SAMPLE AND DATA** COLLECTION



Data among **3 107** pupils enrolled in 74 elementary schools Between october 2019 and March 2020



Read of HLS-Chid-Q15-FR : 5 minute

Data collection : Alliance project (Health Literacy / Perceived self-efficacy / Demographic variables)

## **Contact information**, Please scan me

HLS-Child-Q15-FR © 2022 by Marine Cécile Genton (PhD), Boris Chapoton (MPh), Sali Mohammed Dauda (MSc), Mathieu Oriol (MD) Véronique Regnier Denois (PhD), Franck Chauvin (MD-PhD) is licensed under <u>Attribution-</u> NonCommercial-NoDerivatives 4.0 International







GOUVERNEMENT

0

HL-road safety 72

HL-rest

HL-eat

HL-healthy 69

HL-godoctor\_65

HL-relax

HL-meal

HL-thi

HL- medicine adults

HL-medicine

HL- a cold

HL- parents health

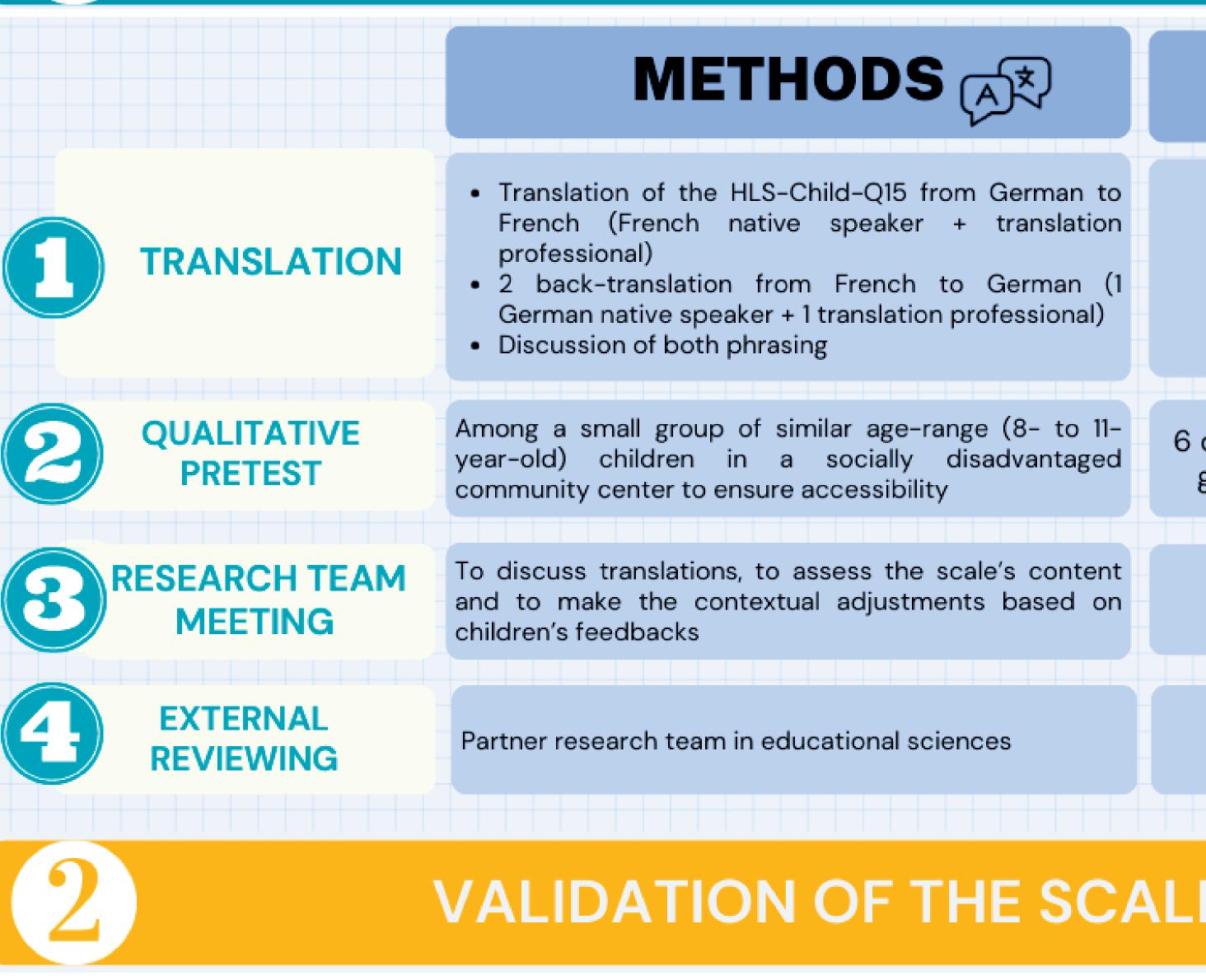
HL- understand doctor

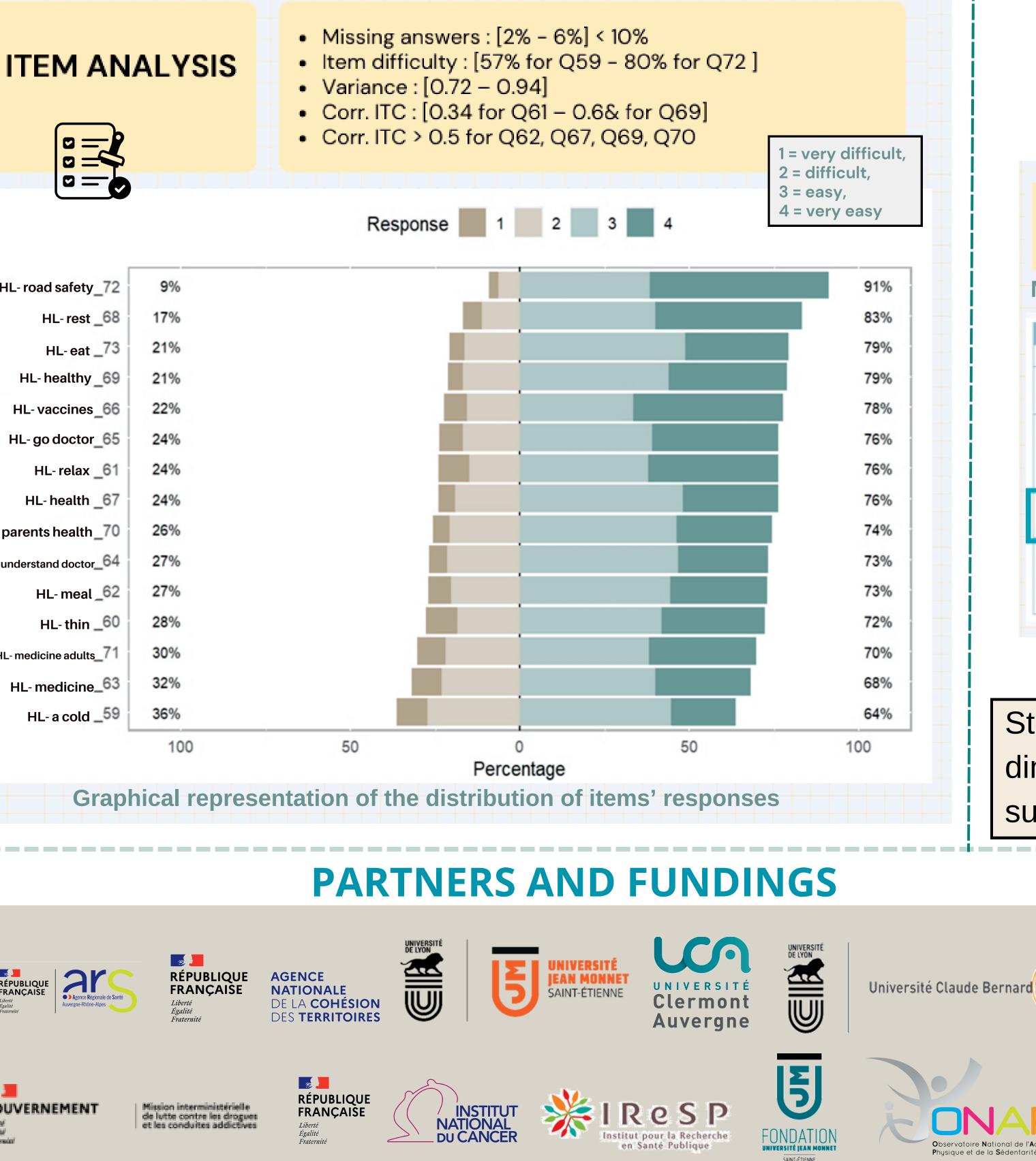
HL-vaccines

# Mesuring Health literacy among French pupils with the HLS-Child-Q15 Marine Cécile Genton (PhD) 1, Boris Chapoton (MPh) 2, Sali Mohammed Dauda (MSc) 3, Mathieu Oriol (MD) 3, Véronique Regnier Denois (PhD) 1, Franck Chauvin (MD-PhD) 1

1 University Claude Bernard Lyon 1, University Jean Monnet Saint Etienne, France; 2 University Jean Monnet Saint Etienne, France; 3 University Jean Monnet Saint Etienne, Fran 3 Plateforme de recherche en prévention primaire des cancers (PRPPC), Centre Hygée, Saint-Etienne, F-42000 France

# **TRANSLATION AND ADAPTATION OF**





ESCALE	INTERNAL CONSISTENCY	<ul> <li>Cronbach's alpha = 0.83</li> <li>Revelle's Omega = 0.85</li> <li>Average split-half reliability = 0.83</li> </ul>					
<b>SULTS</b> or refinements	INTERNAL VALIDITY	<ul> <li>Barlett's test of specificity : χ²(105) = 6996.3, p&lt; 0.001</li> <li>KMO-criterion = 0.91</li> <li>Scree plot : <ul> <li>3-factor model possible</li> <li>2-factor model to keep eigenvalue &gt; 1</li> </ul> </li> <li>2-factor model : <ul> <li>explained variance = 28%</li> <li>Factors 1: eigenvalues = 2.45, explained variance = 58%</li> <li>Factor 2: eigenvalues = 1.79, explained variance = 42%</li> </ul> </li> </ul>					
en : modification of natical structures lication complex wordings	EXTERNAL         VALIDITY : CFA	ALIDITY : CFA       items         • Covariances' estimations with perceived self-efficacy         • 0.42 for the entire 12-item scale         • 0.36 for the Healthcare factor         • 0.38 for the Primary prevention factor         • pvalues p < 0.001					
CONSTRUCT VALIDITY : EFA	COMPLEMENTARY ANALYSES						
Models' fit indices							
ModelFactorsA (15)Health literacy	Items         X <sup>2</sup> (pvalue)         D           59 - 73         644 (p < 0.01)		CFI (>0.9 0.91	) RMSEA (<0.05) S 0.045 (p = 0.999)	RMR (<0.0) 0.037	5) AIC 106645.1	BIC 106916.6
	63,64,65,66,67,68,70,71,72 60,61,62,69,73 440 (p < 0.01) 8		0.94	0.045 (p = 0.999) 0.036 (p > 0.999)	0.030	106374.7	
	59,63,64,65,66,67,70,71 60,62,69,73 421 (p < 0.01) 8 61,68,72	7 0.93	0.95	0.035 (p > 0.999)	0.029	106342.1	106631.7
D (12) Healthcare Primary prevention	59,63,64,65,66,67,70,71 60,62,69,73 299 (p < 0.01) 5	2 0.94	0.95	0.039 (p > 0.999)	0.030	85295.6	85524.9
Access E (15) Understand Apply	59,60,61,62 63,64,65,66,67,68 611 (p < 0.01) 8 69,70,71,72,73	7 0.90	0.91	0.044 (p > 0.999)	0.036	106600.9	106737.9
		CLUSI					
mensional thematic	high internal consistency. scale related to healthca ale could be reduced to 12	re and j		-	-		
		REFERENCES					
fondation	World Health Organization. (20	17). Shang	hai decla		•	n the 2030	452 Agei



Pinheiro, P., & Bauer, U. (2020). Adapting the European Health Literacy Survey 460 Questionnaire for Fourth-Grade Students in Germany : Validation and Psychometric 461 Analysis. HLRP: Health Literacy Research and Practice, 4(3), 3. 462 https://doi.org/10.3928/24748307-20200428-01